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Bacteria

ATCC Number	Description	Designation	V
8086	<i>Leuconostoc mesenteroides</i> subsp. <i>dextranicum</i> (Beijerinck) Garvie deposited as <i>Leuconostoc dextranicum</i> (Beijerinck) Hucker and Pederson	22	
8293	<i>Leuconostoc mesenteroides</i> subsp. <i>mesenteroides</i> (Tsenkovskii) van Tieghem	37Y [NCDO 523; NCIB 8023; NRRL B-1118]	
13134	<i>Streptobacterium dextranicum</i> Perquin	NRRL B-1254	
17071	<i>Leuconostoc mesenteroides</i> subsp. <i>dextranicum</i> (Beijerinck) Garvie deposited as <i>Leuconostoc dextranicum</i> (Beijerinck) Hucker and Pederson	I 1.1	
17072	<i>Leuconostoc mesenteroides</i> subsp. <i>dextranicum</i> (Beijerinck) Garvie deposited as <i>Leuconostoc dextranicum</i> (Beijerinck) Hucker and Pederson	I 1.2	
19254	<i>Leuconostoc mesenteroides</i> subsp. <i>cremoris</i> (Knudsen and Sorenson) Garvie deposited as <i>Leuconostoc cremoris</i> (Knudsen and Sorenson) Garvie	NCDO 543 [LF 2]	
19255	<i>Leuconostoc mesenteroides</i> subsp. <i>dextranicum</i> (Beijerinck) Garvie deposited as <i>Leuconostoc dextranicum</i> (Beijerinck) Hucker and Pederson	NCDO 529 [NRRL B-3469]	
27258	<i>Leuconostoc mesenteroides</i> subsp. <i>mesenteroides</i> (Tsenkovskii) van Tieghem	NRRL B-641M	

<u>27310</u>	<i>Oenococcus oeni</i> (Garvie) Dicks et al. deposited as <i>Leuconostoc dextranicum</i> subsp. <i>vinarium</i> (Nonomura et al.) Nonomura and Ohara	202 [NCDO 2122]
<u>27311</u>	<i>Oenococcus oeni</i> (Garvie) Dicks et al. deposited as <i>Leuconostoc dextranicum</i> subsp. <i>debile</i> Nonomura and Ohara	599 [NCDO 2123]

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ARS Bacterial Collection Search Detailed Results

***Leuconostoc mesenteroides* subspecies *mesenteroides* (Tsenkovskii 1878)
van Tieghem 1878**

Synonym: *Leuconostoc mesenteroides*

NRRL B-512F

Accession No. in other collection(s): B-512-F=ATCC 10830A

Isolated from (substrate): root beer, slimy,

Isolated from (location): Virginia; USA

Applications/Products: dextran

2/3,AB,KWIC/2 (Item 2 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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08268702 BIOSIS NO.: 000094049875
CONTINUOUS PRODUCTION OF CLINICAL DEXTRAN USING TWO-STAGE REACTOR
AUTHOR: LEE S; CHOI S; KIM E; KOO Y
AUTHOR ADDRESS: DEP. BIOL. ENG., INHA UNIV., INCHON 402-751, KOREA.
JOURNAL: BIOTECHNOL LETT 14 (5). 1992. 379-384. 1992
FULL JOURNAL NAME: Biotechnology Letters
CODEN: BILED
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

ABSTRACT: Clinical dextran with desired molecular weight was produced continuously in the two-stage reactor. Cells of *Leuconostoc mesenteroides* **B512F** cultivated in the first reactor were transferred to the second reactor where sucrose and primer were added for clinical dextran production. By using this two-stage reactor, the fraction of desired clinical dextran increased significantly when observed with gel

2/3,AB,KWIC/4 (Item 4 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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06581217 BIOSIS NO.: 000087023378

THE EFFECT OF SYNTHESIS TEMPERATURE ON THE STRUCTURE OF DEXTRAN NRRL-
B512F

AUTHOR: SABATIE J; CHOPLIN L; MOAN M; DOUBLIER J L; PAUL F; MONSAN P

AUTHOR ADDRESS: DEP. CHEM. ENG., LAVAL UNIV., QUEBEC, CANADA.

JOURNAL: CARBOHYDR POLYM 9 (2). 1988. 87-102. 1988

FULL JOURNAL NAME: Carbohydrate Polymers

CODEN: CAPOD

RECORD TYPE: Abstract

LANGUAGE: ENGLISH

ABSTRACT: The present study puts together the results from several types of experiments from which the effect of synthesis temperature on the primary structure and the macromolecular characteristics of native dextran NRRL B 512F has been deduced. From light-scattering measurements, it has been concluded that the average molecular weight of non-associated molecules is almost independent of synthesis temperature and much smaller than all the values reported in the literature for non-fractionated native dextran. This result was made possible due to the use of a method which does not take into account the contribution of dextran aggregates. These aggregates usually lead to an over-estimation of dextran molecular weight. By combining intrinsic viscosity measurements and hydrolysis of dextran with a glucoamylase, evidence is given that branching increases with synthesis temperature, particularly through secondary ramifications. As a result, the conformation of dextran changes from an expanded random coil type at relatively low temperature (<20.degree.C), to a compact solid sphere type observed at higher temperature (30.degree.C).

American Type Culture Collection

CATALOGUE OF BACTERIA AND PHAGES

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ISBN: 0-930009-44-4

BACTERIA

- Leptospira noguchii* Yasuda *et al.*
Panama
K. Sulzer and A.F. Kaufmann CZ 214 K ← N.B. Gale.
Opossum kidney, *Didelphis marsupialis*, Panama. Type strain
(Int. J. Syst. Bacteriol. 37: 407-415, 1987). (Medium
1470 30C) Shipped: Cell suspension at room temperature.
Price Code: C
- Leptospira santarosai* Yasuda
Borincana
A.D. Alexander HS 622 (*Leptospira interrogans*) ← R. Yager
and W. Gochenour, Jr. Human, Puerto Rico. Reference strain
for serotype borincana (Current Problems in Leptospirosis
Research, Wld. Hlth. Org. Techn. Rep. Ser., No. 380: 22,
1967). Taxonomy (Int. J. Syst. Bacteriol. 37: 407-415, 1987).
Am. J. Trop. Med. Hyg. 1: 457-461, 1952; Zoonoses Res.
2: 152-227, 1963. (Medium 1470 30C) Shipped: Cell
suspension at room temperature. Price Code: C
- Leptospira shermani*
K. Sulzer and A.F. Kaufmann LT 821 ← N.B. Gale. Spiny
rat kidney, *Proechimys semispinosus*, Panama. Type strain
(Int. J. Syst. Bacteriol. 37: 407-415, 1987). (Medium
1470 30C) Shipped: Cell suspension at room temperature.
Price Code: C
- Leptospira weilii* Yasuda *et al.*
Type celledoni
K. Sulzer and A.F. Kaufmann strain Celledoni ← WRAIR
← D.J.W. Smith. Human blood, Australia. Type strain (Int.
J. Syst. Bacteriol. 37: 407-415, 1987). (Medium 1470 30C)
Shipped: Cell suspension at room temperature. Price Code: C
- Leptospira wolbachii* Yasuda
Type codice
K. Sulzer and A.F. Kaufmann strain CDC ← M.K. Ward.
Water, USA. Type strain (Int. J. Syst. Bacteriol. 37: 407-
415, 1987). (Medium 1470 30C) Shipped: Cell suspension at
room temperature. Price Code: C
- Leptothrix discophora* (Schwers) Dorff
L.F. Adams SS-1 ← W.C. Ghiorse. Metallic surface film
of pond, New York. Manganese metabolism (Appl. Environ.
Microbiol. 49: 556-562, 1985; Arch. Microbiol. 145: 126-135,
1986; J. Bacteriol. 169: 489-494, 1987). (Medium 1503 26C)
Shipped: Freeze-dried. Price Code: C
- Leptotrichia buccalis* (Robin) Trevisan
Replacement received from: NCTC 10249 (← A. Howell C-
1013-b). Supragingival calculus. Type strain (Int. J. Syst.
Bacteriol. 30: 225-420, 1980). (Medium 177 or 1053 37C Anaerobic)
Shipped: Freeze-dried. Price Code: C
- 19616 M.N. Gilmour. Dental plaque. (Medium 1490 37C Anaerobic)
Shipped: Freeze-dried. Price Code: C
- 19471 G. Frostell 18 (2). Human oral cavity. Acta Odontol. Scand.
18: 365, 1960. (Medium 280 or 1053 37C Anaerobic) Shipped:
Freeze-dried. Price Code: C
- 19472 G. Frostell strain 19 (3). Human oral cavity. Acta Odontol.
Scand. 18: 365, 1960. (Medium 280 or 1053 37C Anaerobic)
Shipped: Freeze-dried. Price Code: C
- 19173 M. Reig RYC 30220. Blood, Spain. Bacteremia (J. Clin.
Microbiol. 22: 320-321, 1985). (Medium 260 37C Anaerobic)
Shipped: Freeze-dried. Price Code: C
- 193174 M. Reig RYC 29853. Blood, Spain. Bacteremia (J. Clin.
Microbiol. 22: 320-321, 1985). (Medium 260 37C Anaerobic)
Shipped: Freeze-dried. Price Code: C
- Leuconostoc amelibiosum* Schillinger *et al.*
190882 C.S. McCleskey 101-F (*Leuconostoc mesenteroides*). [NRRL
B-1501] Characterization (Syst. Appl. Microbiol. 12: 48-55,
1989). (Medium 33 26C) Shipped: Freeze-dried. Price Code: C
- 191346 NRRL B-742 (*Leuconostoc mesenteroides*). [DSM 20188]
Type strain (Int. J. Syst. Bacteriol. 39: 495-497, 1989; Syst.
Appl. Microbiol. 12: 48-55, 1989). Produces dextran from
sucrose (*ibid.*). (Medium 33 26C) Shipped: Freeze-dried.
Price Code: C
- Leuconostoc blayaisense* Nonomura and Ohara: See *Leuconostoc*
oenos
- Leuconostoc carnosum* Shaw and Harding
49367 NCFB 2776 ← B.G. Shaw. [SML 40] Type strain (Int. J.
Syst. Bacteriol. 39: 217-223, 1989). (Medium 416 22-26C)
Shipped: Freeze-dried. Price Code: C
- Leuconostoc citreum* Farrow *et al.*
49370 NCDO 1837 ← A. Hayward. [B 2399] Honeydew of rye ear.
Type strain (Int. J. Syst. Bacteriol. 39: 279-283, 1989).
(Medium 416 22-26C) Shipped: Freeze-dried. Price Code: C
- Leuconostoc cremoris* (Knudsen and Sorensen) Garvie: See
Leuconostoc mesenteroides subsp. *cremoris*
- Leuconostoc dextranicum* (Beijerinck) Hucker and Pederson: See
Leuconostoc mesenteroides subsp. *dextranicum*
- Leuconostoc dextranicum* subsp. *debile* (Nonomura *et al.*)
Nonomura and Ohara: See *Leuconostoc oenos*
- Leuconostoc dextranicum* subsp. *vinarium* (Nonomura *et al.*)
Nonomura and Ohara: See *Leuconostoc oenos*
- Leuconostoc gelidum* Shaw and Harding
49366 NCFB 2775 ← G. Shaw 1A21-Shaw. [SML 9] Type strain
(Int. J. Syst. Bacteriol. 39: 217-223, 1989). (Medium 416 22-
26C) Shipped: Freeze-dried. Price Code: C
- Leuconostoc infrequens* Nonomura *et al.*: See *Leuconostoc oenos*
- Leuconostoc lactis* Garvie
15520 K. Kitahara (*Lactobacillus batatas*). Soft-rotted sweet potato.
Taxonomy (Syst. Appl. Microbiol. 12: 48-55, 1989). Res. Inst.
Food Sci. 2: 23-26, 1949. (Medium 33 37C) Shipped: Freeze-
dried. Price Code: C
- 19256 NCDO 533 ← E. Garvie ← T. Gibson. [L5] Type strain
(Int. J. Syst. Bacteriol. 30: 225-420, 1980). (Medium 216 26C)
Shipped: Freeze-dried. Price Code: C
- Leuconostoc mesenteroides* subsp. *cremoris* (Knudsen and
Sorensen) Garvie
19254 NCDO 543 (*Leuconostoc cremoris*) ← E. Garvie. [LF 2]
Hansen's dried starter powder. Type strain (Int. J. Syst.
Bacteriol. 29: 149-151, 1979; *ibid.*, 33: 118-119, 1983).
(Medium 215 26C) Shipped: Freeze-dried. Price Code: C
- Leuconostoc mesenteroides* subsp. *dextranicum* (Beijerinck)
Garvie
8086 C.S. Pederson 22 (*Leuconostoc dextranicum*). Fermenting
string beans. J. Dairy Res. 27: 291, 1960. (Medium 33 26C)
Shipped: Freeze-dried. Price Code: C
- 17071 C.B. van Niel 1.1.1 (*Leuconostoc dextranicum*). (Medium
33 26C) Shipped: Freeze-dried. Price Code: C
- 17072 C.B. van Niel 1.1.2 (*Leuconostoc dextranicum*). (Medium
33 26C) Shipped: Freeze-dried. Price Code: C
- 19255 NCDO 529 (*Leuconostoc dextranicum*) ← NIRD ← Orla-
Jensen (?) [NRRL B-3469] Type strain (Int. J. Syst. Bacteriol.
30: 225-420, 1980; *ibid.*, 29: 149-151, 1979). (Medium 33 26C)
Shipped: Freeze-dried. Price Code: C
- Leuconostoc mesenteroides* subsp. *mesenteroides* (Tsenkovskii)
van Tieghem
8293 R.H. Vaughn 37Y. [NCDO 523; NCIB 8023; NRRL B-1118]
McCleskey's Type F. Fermenting olives. Type strain (Int. J.
Syst. Bacteriol. 29: 149-151, 1979; *ibid.*, 30: 225-420, 1980;
ibid., 33: 118-119, 1983). (Medium 33 26C) Shipped: Freeze-
dried. Price Code: C
- 9135 W. Gingrich 535. McCleskey's Type B. Requires thiamine,
calcium pantothenate, and nicotinic acid. J. Dairy Res. 27:
284, 1960. (Medium 33 26C) Shipped: Freeze-dried. Price Code: C
- 10830 NRRL B-512. Slime on root beer. Production of dextran
for use as a plasma extender and substitute for mucin (J.
Bacteriol. 63: 293, 1952). J. Dairy Res. 27: 284, 1960. (Medium
33 26C) Shipped: Freeze-dried. Price Code: C
- 10830a NRRL B-512F. Produces dextran. (Medium 84 26C)
Shipped: Freeze-dried. Price Code: C
- 10877 C.S. McCleskey 152-A. (Medium 33 26C) Shipped: Freeze-
dried. Price Code: C
- 10878 C.S. McCleskey 1025-A. (Medium 33 26C) Shipped: Freeze-
dried. Price Code: C
- 10879 C.S. McCleskey 158-B. [NRRL B-1429] (Medium 33 26C)
Shipped: Freeze-dried. Price Code: C
- 10880 C.S. McCleskey 719-B. [NRRL B-1438] (Medium 33 26C)
Shipped: Freeze-dried. Price Code: C
- 10883 C.S. McCleskey 860-F. (Medium 33 26C) Shipped: Freeze-
dried. Price Code: C
- 11449 NRRL B-1299. J. Am. Chem. Soc. 74: 5339-5341, 1952.
(Medium 33 26C) Shipped: Freeze-dried. Price Code: C
- 12291 R.D. DeMoss 39. (Medium 416 26C) Shipped: Freeze-dried.
Price Code: C